

## ABSTRACT OF THE DISCLOSURE

A multiplex system including a predecessor 10A and a successor 10B, an input data buffer 13 for temporarily storing input data to be supplied to the two systems, an output data buffer 14 for temporarily storing output data from the predecessor, a comparator 15 for comparing output data from the successor with output data from the predecessor stored in the output data buffer, a gate 16 for controlling delivering of the output data from the successor to the outside in accordance with an output of the comparator, and an execution controller 17 for confirming that the predecessor has normally completed a processing operation on a unit of input data and then allowing the successor to start an operation of processing input data which has already processed by the predecessor.